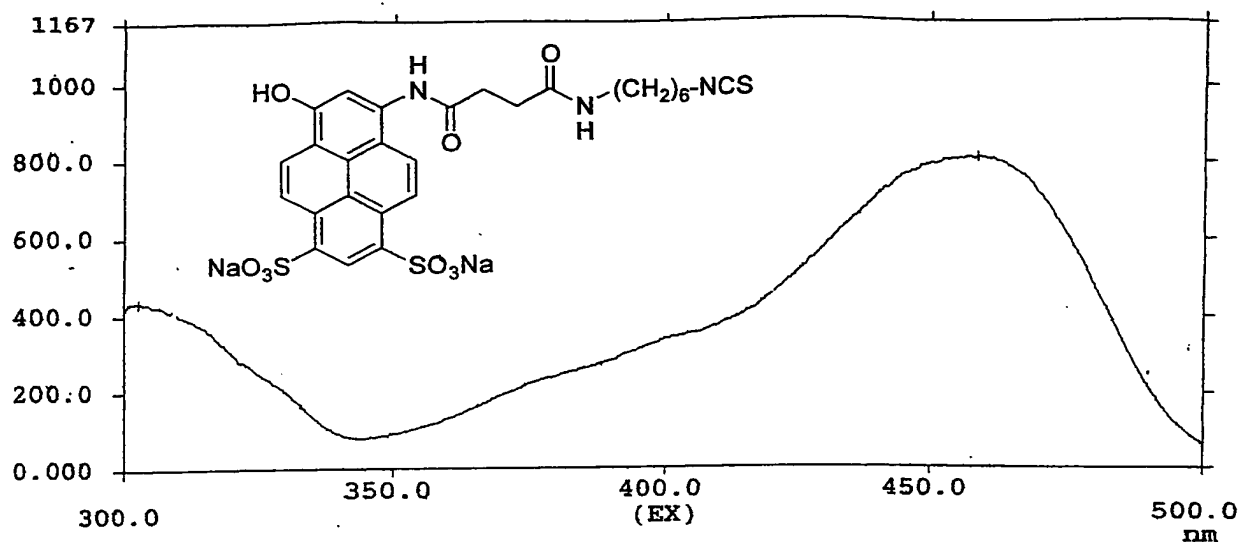


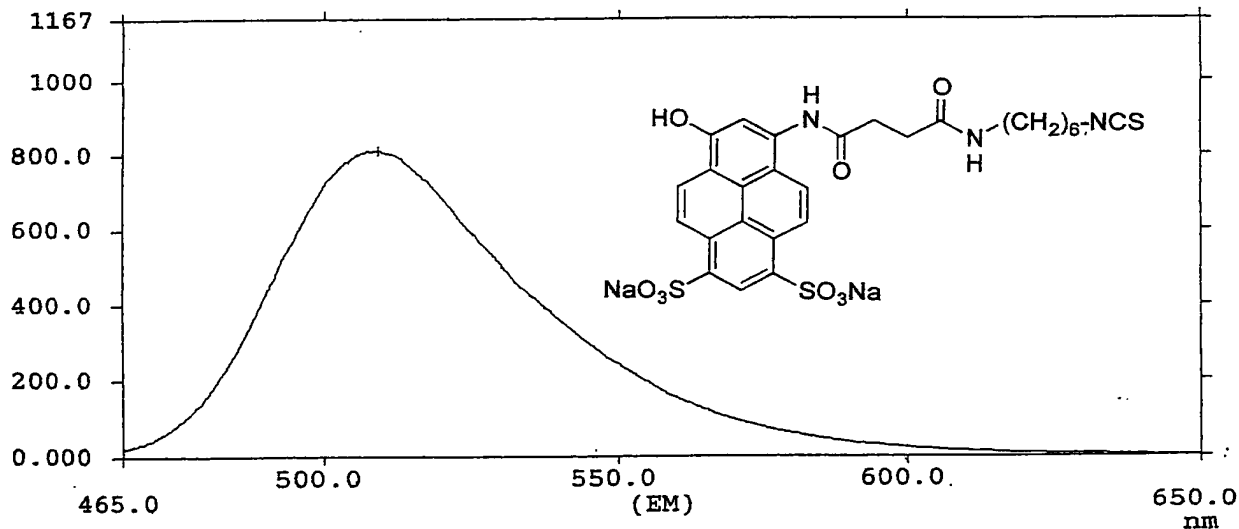
Fig. 1A



Sample : ABC-558-59
 Comment : SB Susb.dil pH 9.0
 EM : 508.0 nm
 Data Mode : Fluorescence
 Scan Speed : 1200 nm/min Slit (EX/EM) : 2.5 nm / 2.5 nm
 PMT Voltage : 700 V Response : Auto

No.	WL (nm)	Peak	No.	WL (nm)	Peak
1	302.6	435.3	2	458.6	811.9

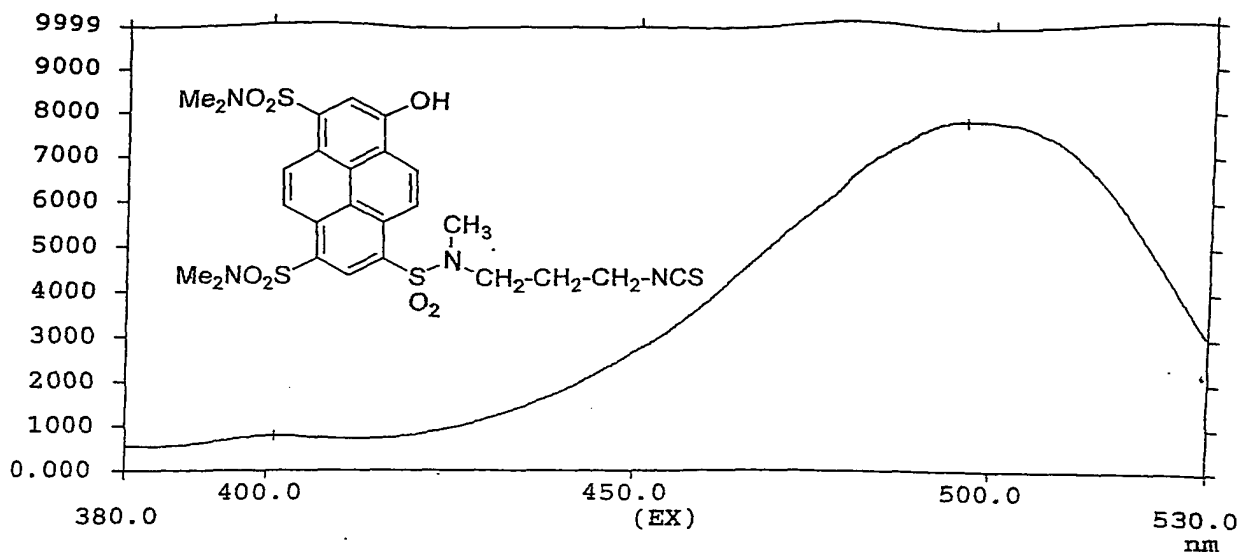
Data Peak Data 12/03/01 02:41 PM



Sample : ABC-558-59
 Comment : SB Susb.dil pH 9.0
 EX : 458.0 nm
 Data Mode : Fluorescence
 Scan Speed : 1200 nm/min Slit (EX/EM) : 2.5 nm / 2.5 nm
 PMT Voltage : 700 V Response : Auto

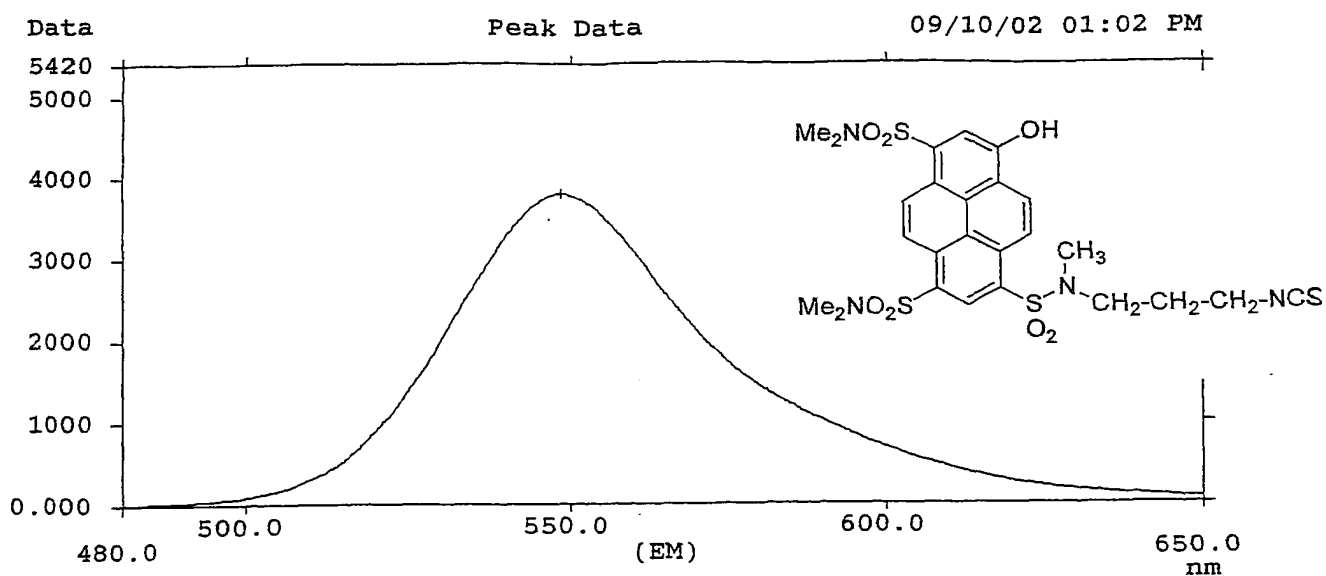
No.	WL (nm)	Peak	No.	WL (nm)	Peak
1	509.0	813.4			

Fig. 1B



Sample : SBO-R-NCS
 Comment : PBS pH 7.0
 EM : 547.0 nm
 Data Mode : Fluorescence
 Scan Speed : 1200 nm/min Slit (EX/EM) : 5.0 nm / 5.0 nm
 PMT Voltage : 700 V Response : Auto

No.	WL (nm)	Peak	No.	WL (nm)	Peak
1	401.0	783.5	2	496.2	7881



Sample : SBO-R-NCS
 Comment : PBS pH 7.0
 EX : 460.0 nm
 Data Mode : Fluorescence
 Scan Speed : 1200 nm/min Slit (EX/EM) : 5.0 nm / 5.0 nm
 PMT Voltage : 700 V Response : Auto

No.	WL (nm)	Peak	No.	WL (nm)	Peak
1	548.4	3807			

Fig. 2

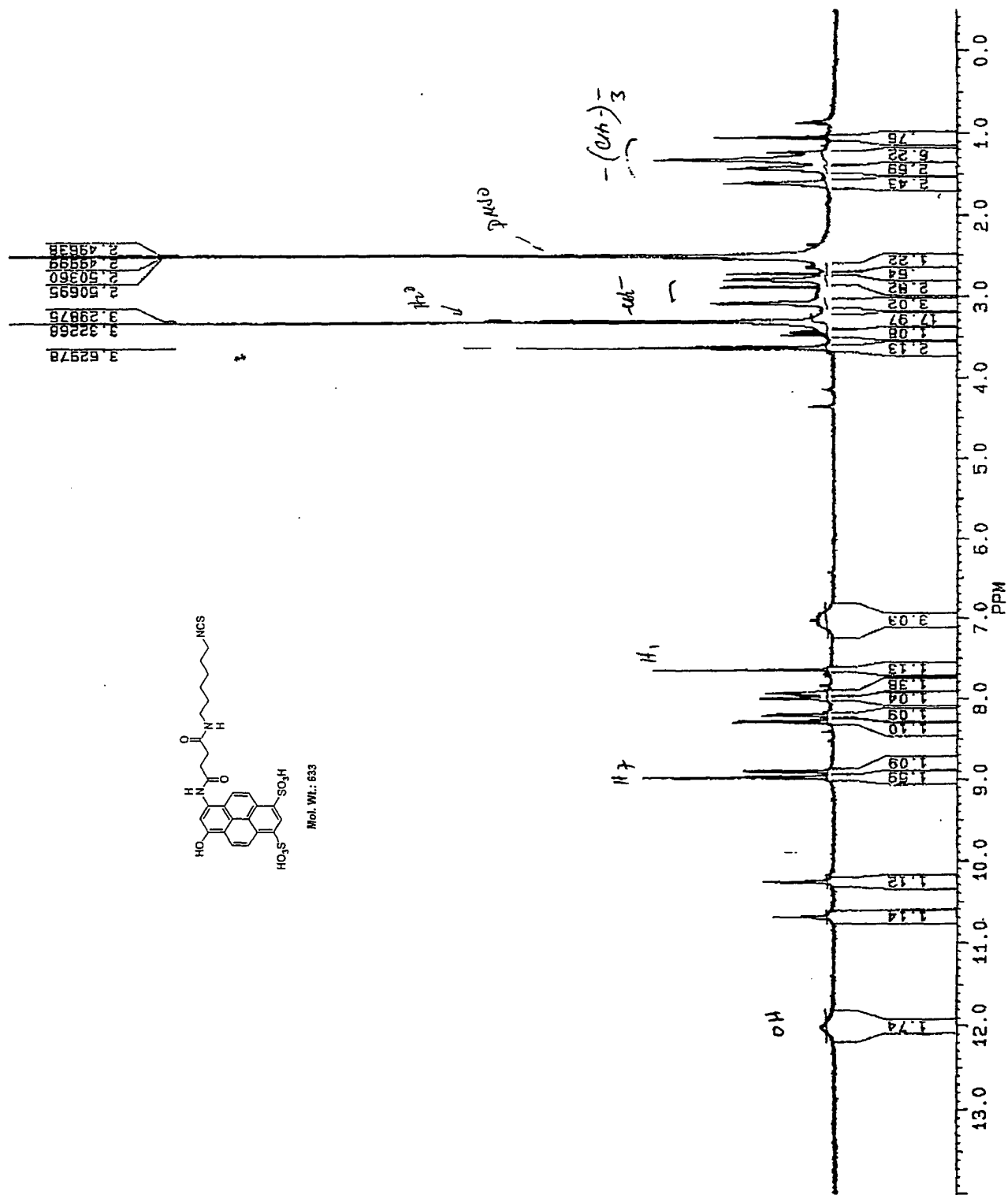


Fig. 3

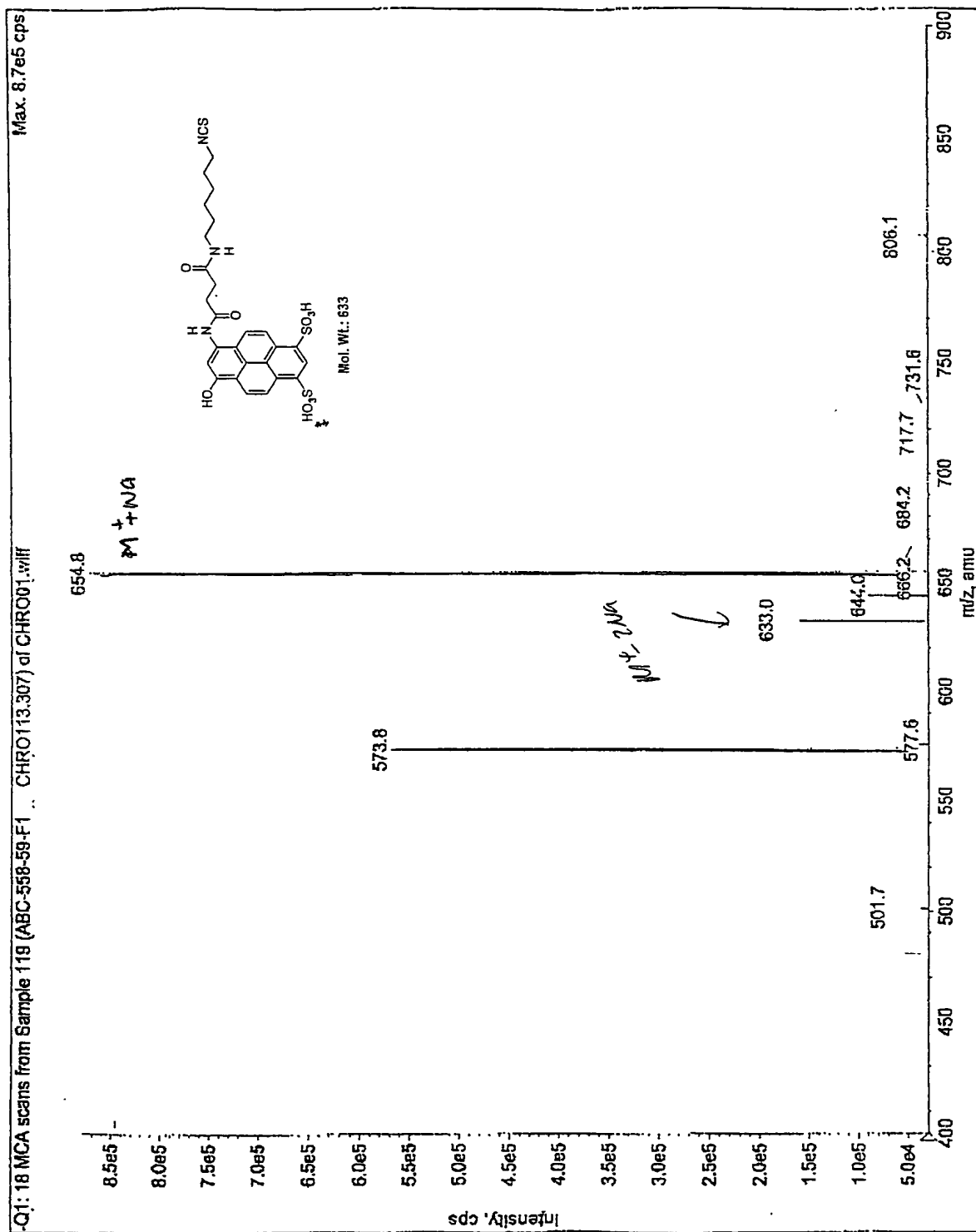


Fig. 4

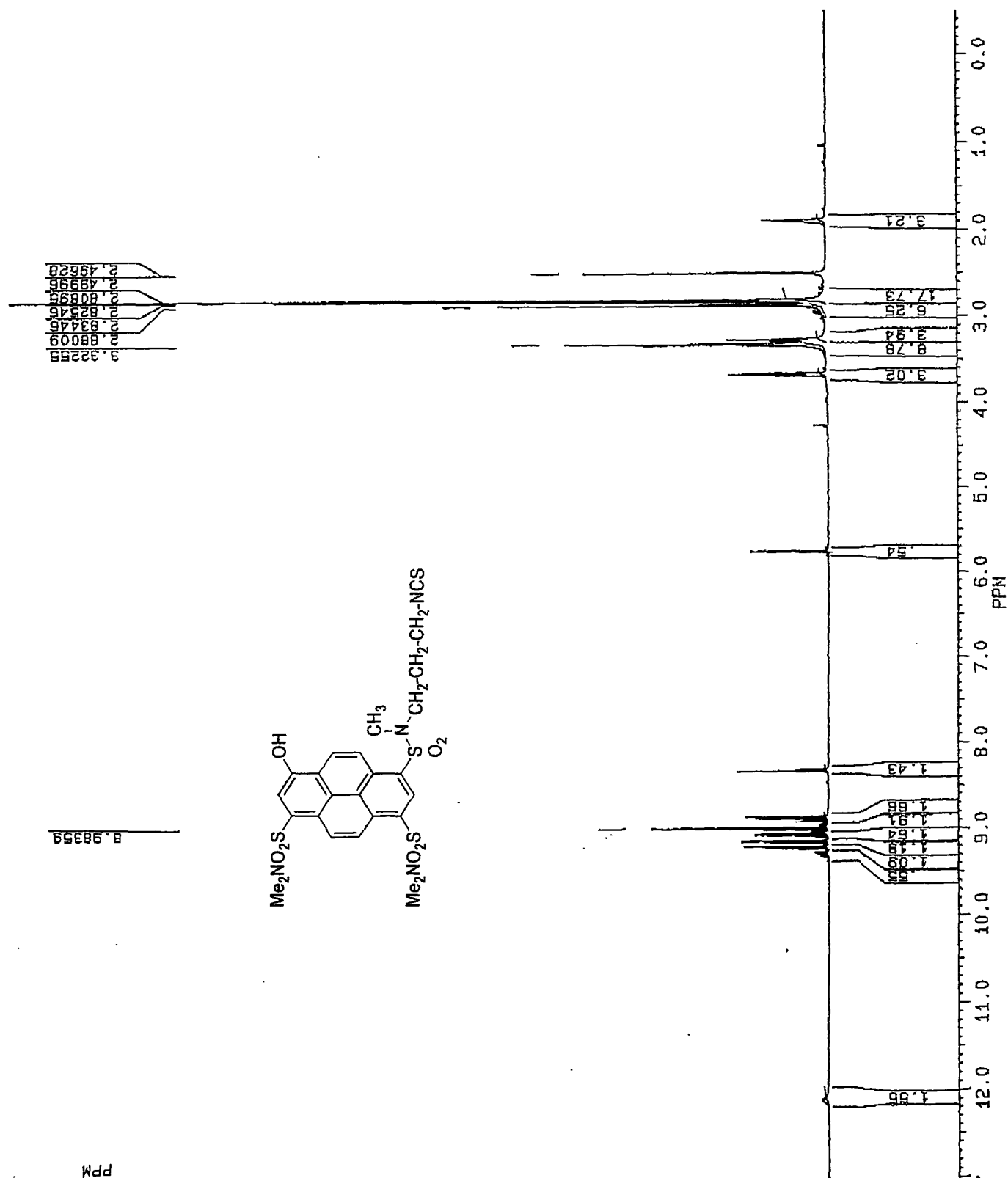
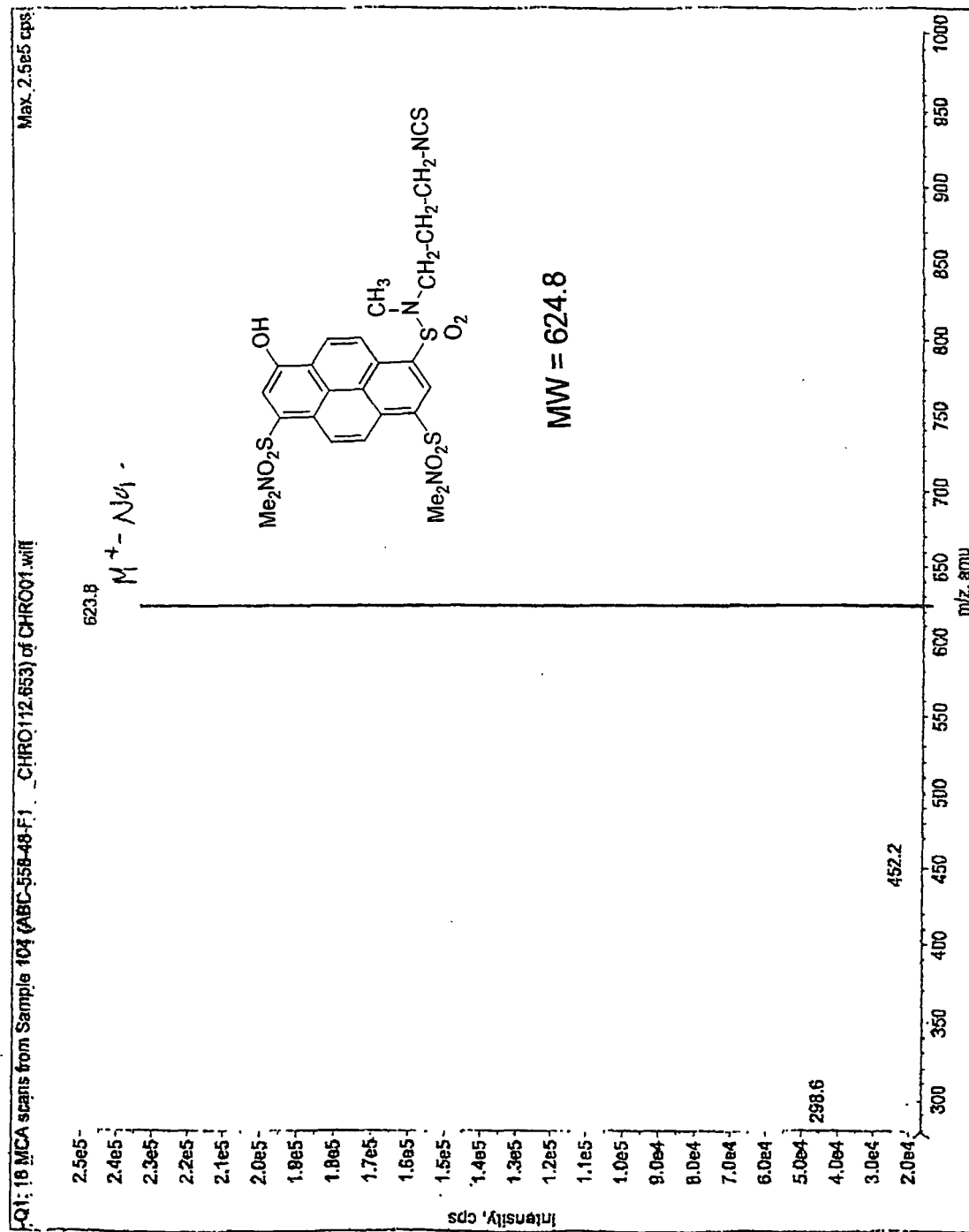


Fig. 5



NAME
CHAN-LEV REP TYPE DIRECTORY
DATA 59695F1 A 1 1 Q19 C:\GOLD\ASCI\SAMPLE\
METHOD PEPT-PEV C:\GOLD\ASCI\METHOD\
SYSTEM 1: SYSTEM1 C:\GOLD\CE811\FYAF54T7A3\

INJECTION 08:53:15 6-MAY 2002
ANALYSIS 09:11:24 6-MAY 2002
REPORT 09:11:26 6-MAY 2002

Fig. 6A

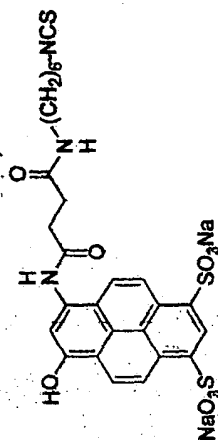
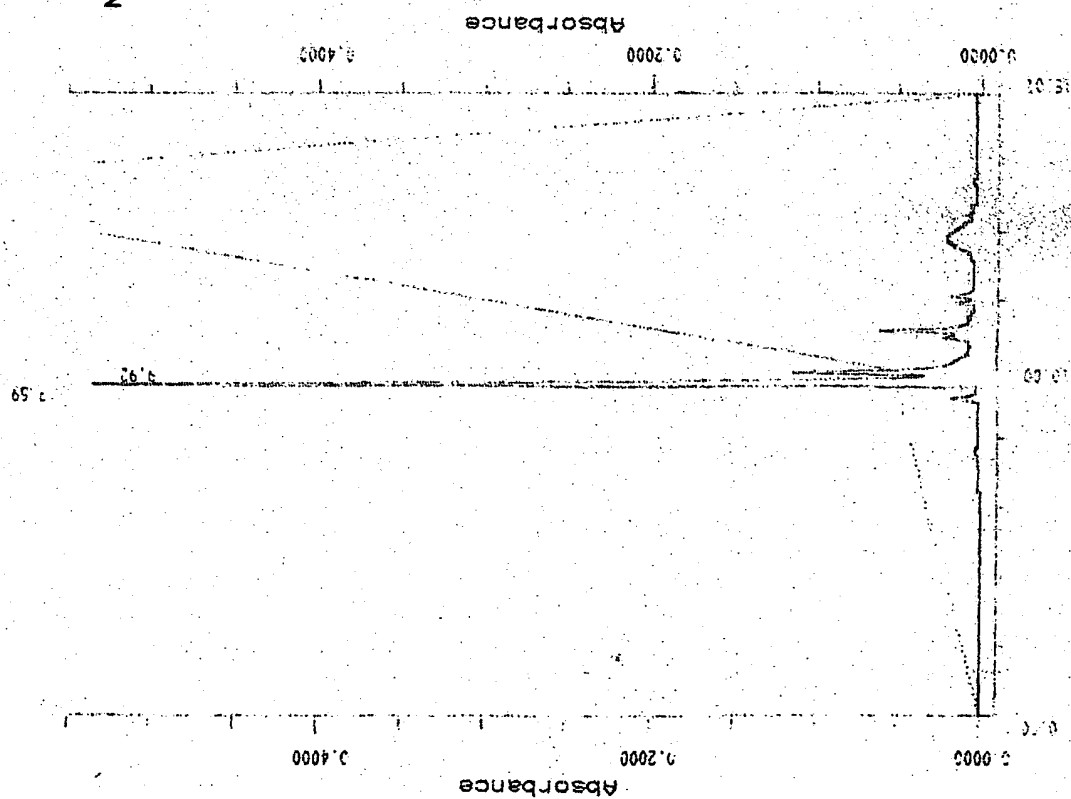


Fig. 7

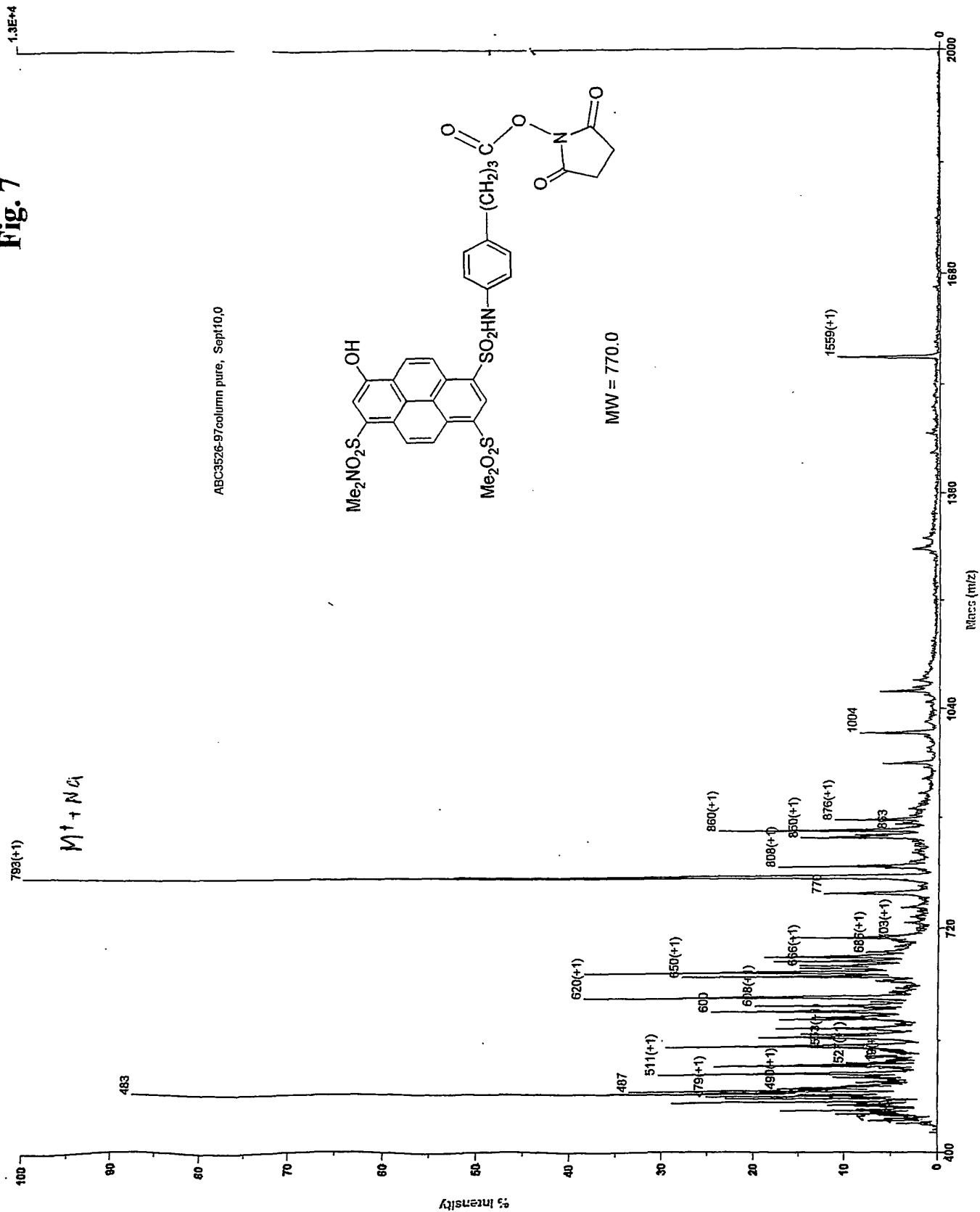
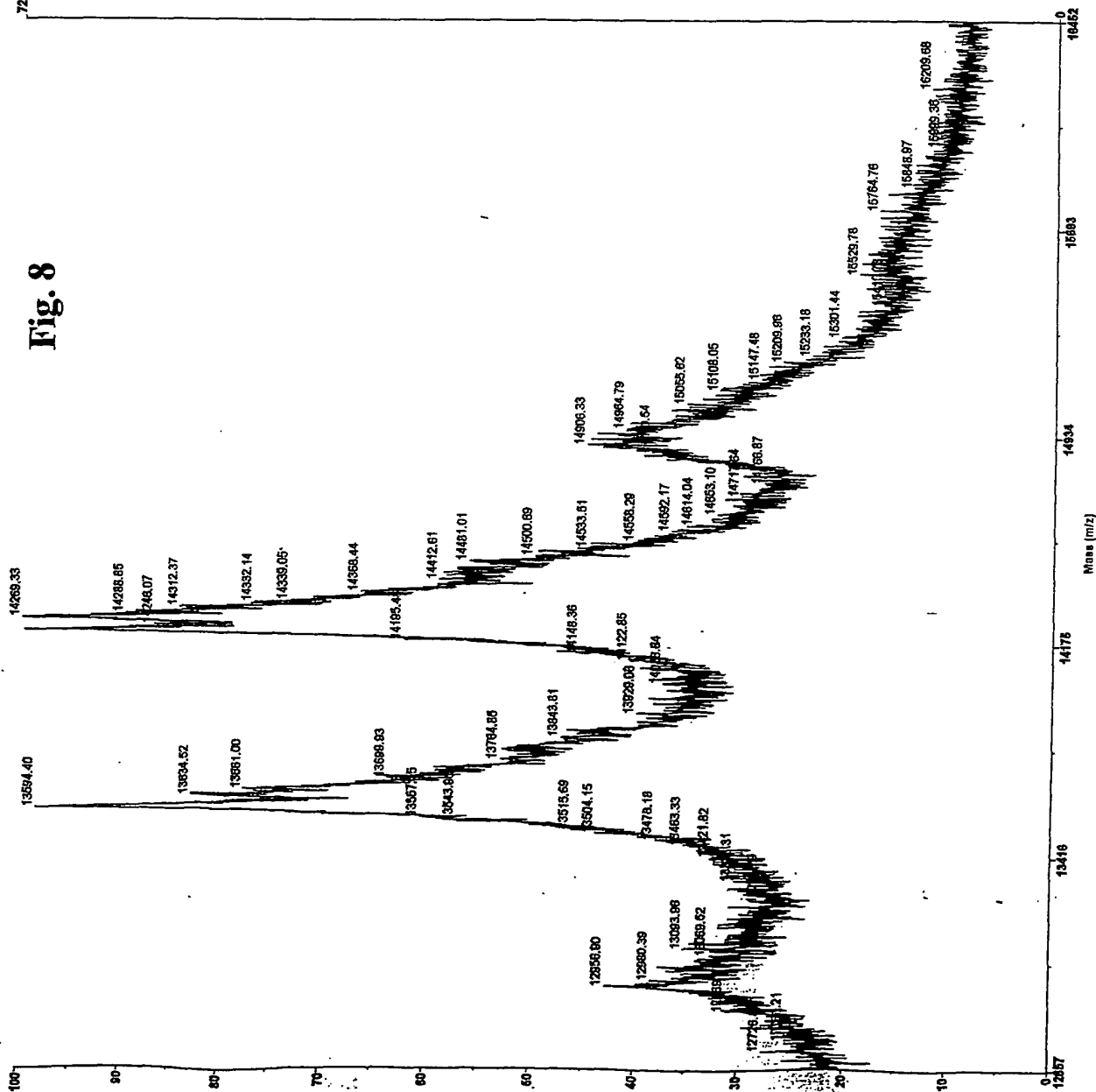


Fig. 8



sbg-wash1 july25,02.bio - 1.000ml Overlaid Traces
 rbabcsbg-itc july 25,02.bio - 1.000ml
 rb644-39.bio - 1.000ml FRESH

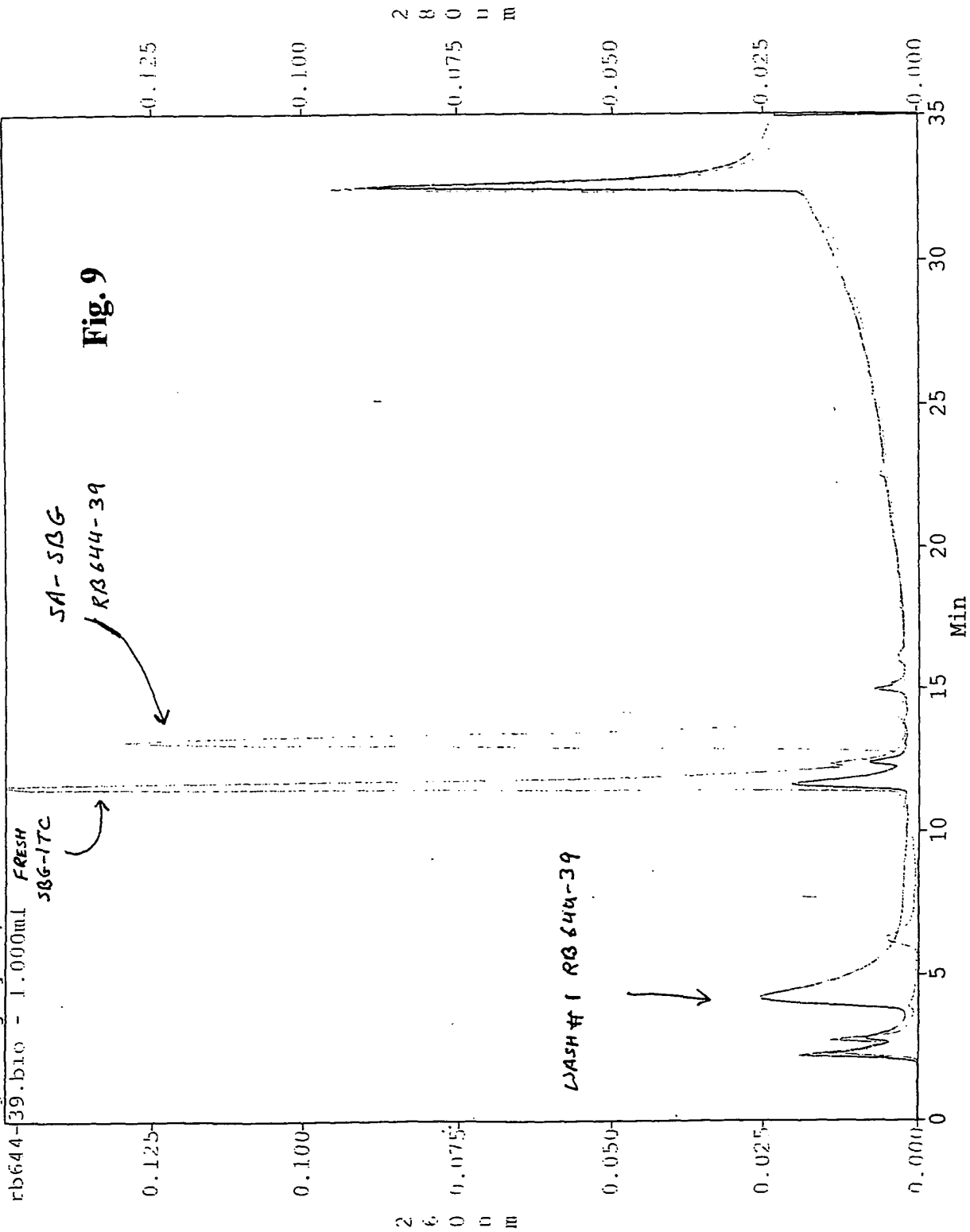
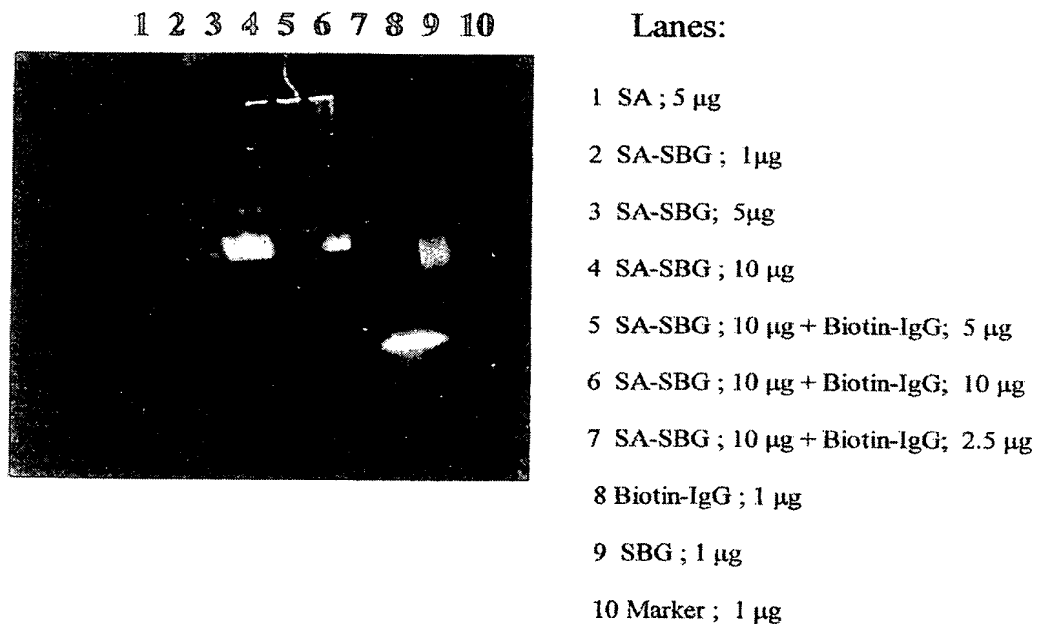


Fig. 10

Gel Shift Assay of SA-SBG conjugate:



Mode of operation: Linear
 Extraction mode: Delayed
 Polarity: Positive
 Acquisition control: Manual

Accelerating voltage: 25000 V
 Grid voltage: 93%
 Guide wire 0: 0.2%
 Extraction delay time: 1700 nsec

Acquisition mass range: 10000 - 200000 Da
 Number of laser shots: 25/spectrum
 Laser intensity: 2817
 Laser Rep Rate: 20.0 Hz
 Calibration type: Default
 Calibration matrix: Sinaphtic acid
 Low mass gate: 10000 Da

Digitizer start time: 56.65
 Bin size: 10 nsec
 Number of data points: 19515
 Vertical scale: 200 mV
 Vertical offset: 0.5%
 Input bandwidth: 150 MHz

Sample well: 32
 Plate ID: 1
 Serial number: 1197
 Instrument name: Voyager-DE
 Plate type filename: C:\VOYAGER\100 well plate.plt
 Lab name: PE Biosystems

Absolute x-position: 7283.04
 Absolute y-position: 31932.2
 Relative x-position: 615.544
 Relative y-position: -135.304
 Shots in spectrum: 25
 Source pressure: 3.723e-007
 Mirror pressure: 0
 TC2 pressure: 0.00989
 TIS gate width: 30
 TIS flight length: 940

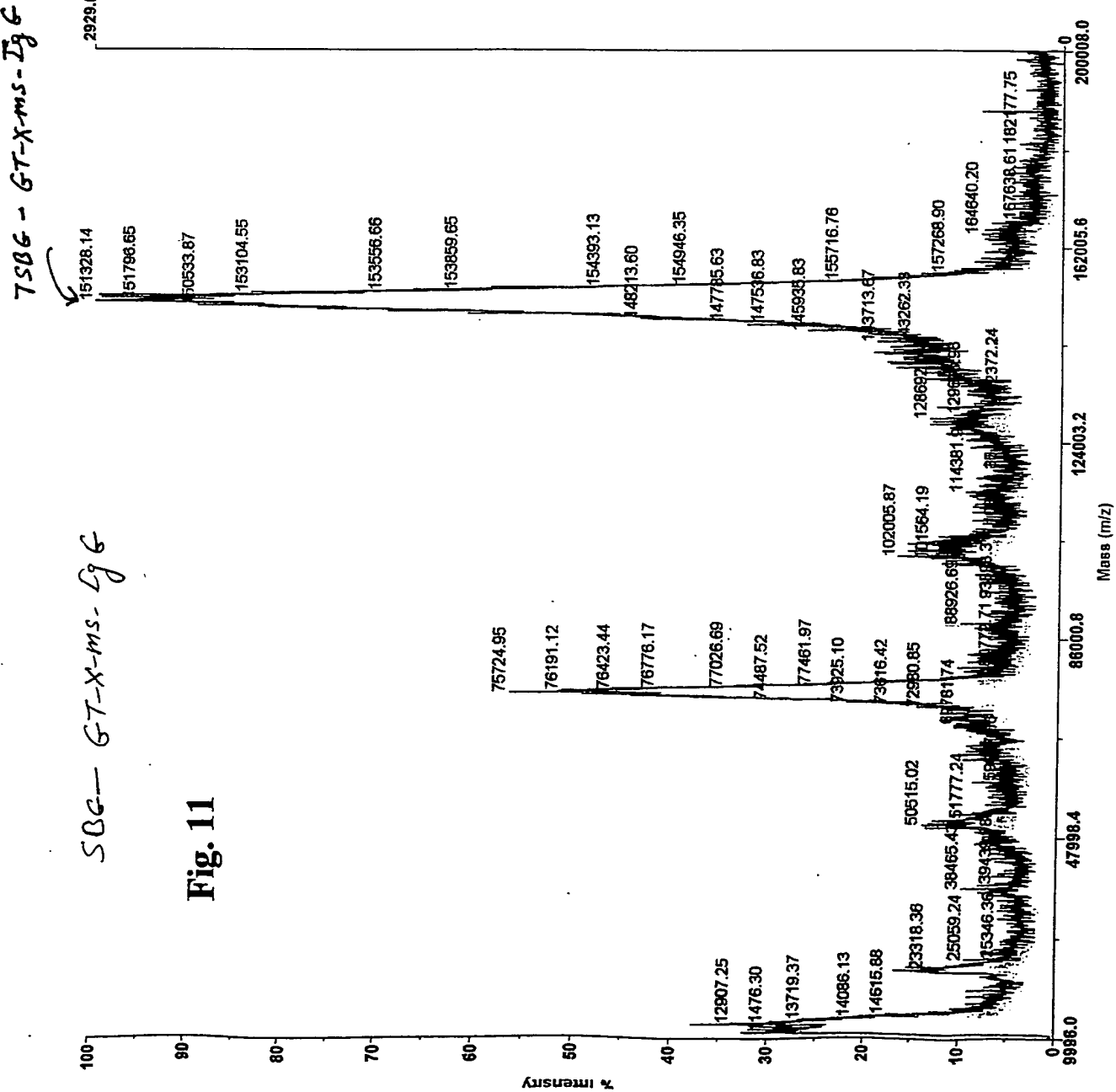
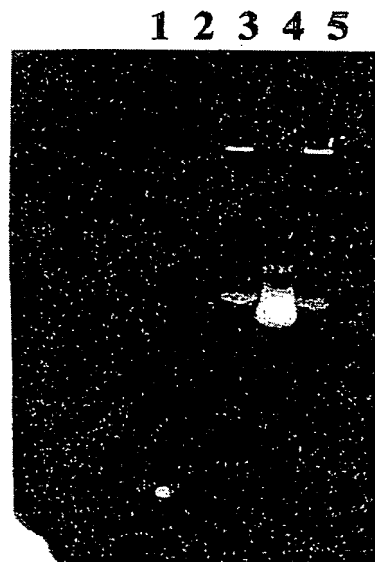


Fig. 11

506 - GT-X-ms-196

Fig. 12

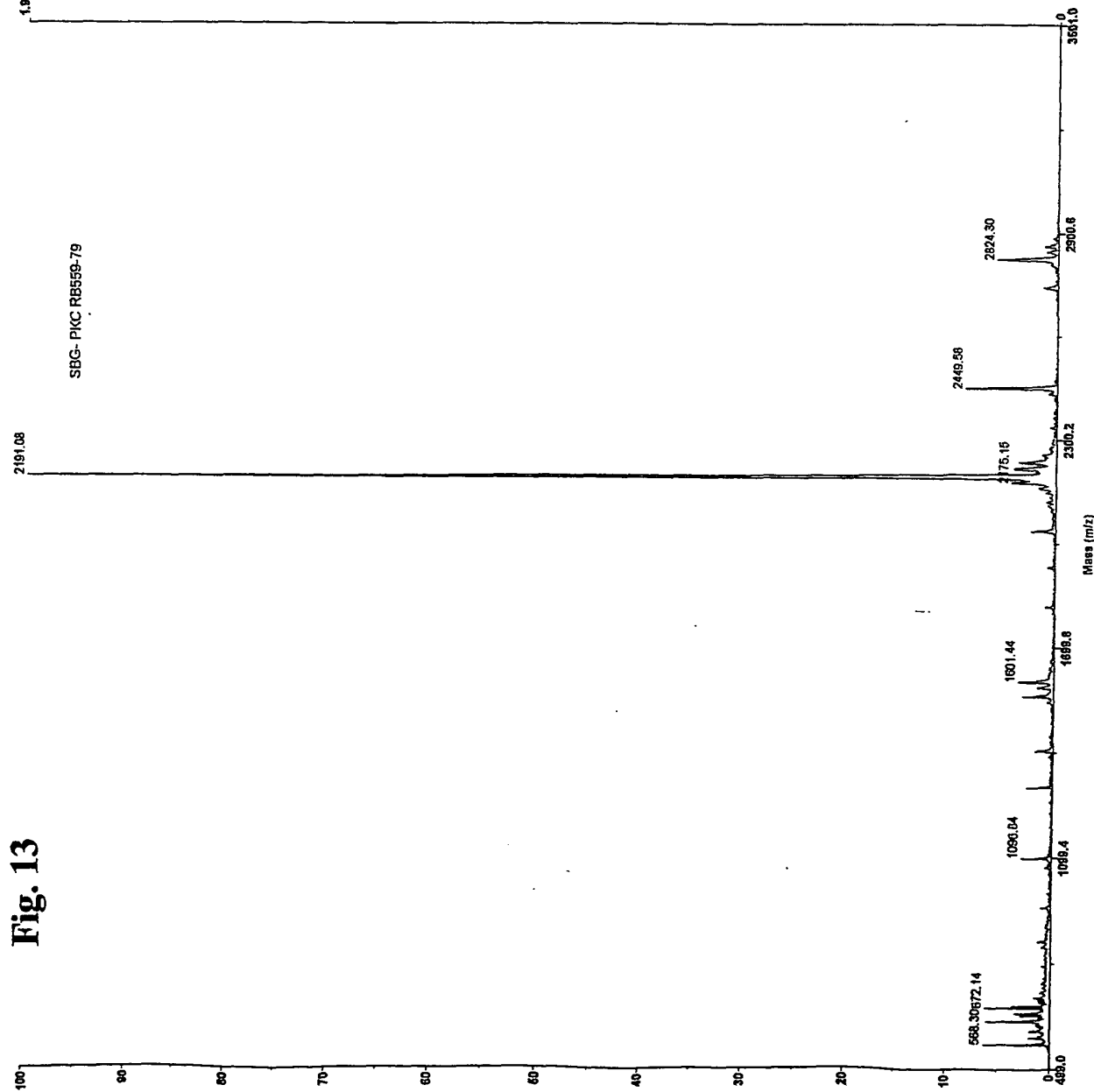
Gel Shift Assay of SA-SBO



Lanes:

1. SA-SBO ; 1 μ g
2. SA-SBO + Biotin-IgG ; 5 μ g
3. SA-SBO ; 10 μ g
4. SA-SBO + Biotin-IgG ; 10 μ g
5. Biotin-IgG ; 5 μ g

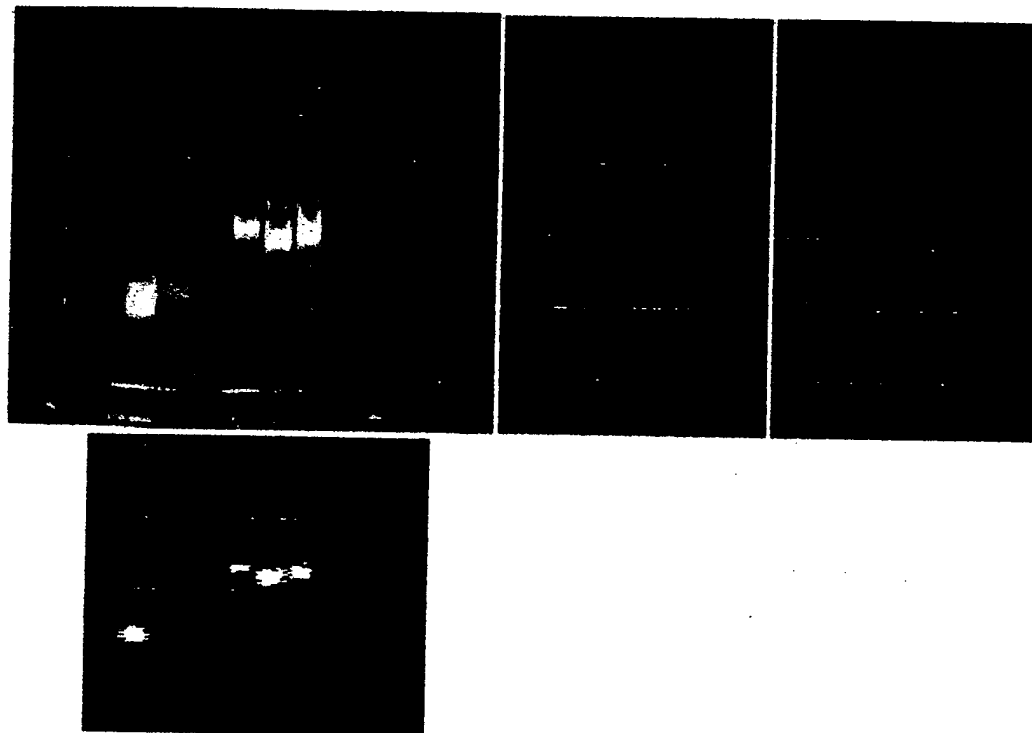
Fig. 13



Mode of operation:	Linear
Extraction mode:	Delayed
Polarity:	Positive
Acquisition control:	Manual
Accelerating voltage:	20000 V
Grid voltage:	95%
Guide wire O:	0.05%
Extraction delay time:	200 nsec
Acquisition mass range:	500 – 3500 Da
Number of laser shots:	100/spectrum
Laser intensity:	1547
Laser Rep Rate:	20.0 Hz
Calibration type:	Default
Calibration matrix:	a-Cyano-4-hydroxycinnamic acid
Low mass gate:	500 Da
Digitizer start time:	14.258
Bin size:	2 nsec
Number of data points:	11636
Vertical scale:	1000 mV
Vertical offset:	0%
Input bandwidth:	150 MHz
Sample well:	21
Plate ID:	1
Serial number:	1197
Instrument name:	Voyager-DE
Plate type filename:	C:\VOYAGER\100 well plate.plt
Lab name:	PE Biosystems
Absolute x-position:	1541.67
Absolute y-position:	37148.1
Relative x-position:	-45.8332
Relative y-position:	0.57055
Shots in spectrum:	100
Source pressure:	6.056e-007
Mirror pressure:	0
TC2 pressure:	0.00861
TIS gate width:	30
TIS flight length:	940

POLAROID PHOTOGRAPH

**DIGITAL IMAGES
at two thresholds**



**Digital Image showing
Lane alignment**

Figure 14 is a digital image of a polyacrylamide gel showing fluorescent conjugates formed by labeling streptavidin and IgG molecules with the isothiocyanate of StarBright Orange to give labeled reporter moieties having measurable label to probe ratios.

Fig. 15



Figure 15 is a photograph of a polyacrylamide gel showing the fluorescence of an oligonucleotide labeled with StarBright Green Dye.

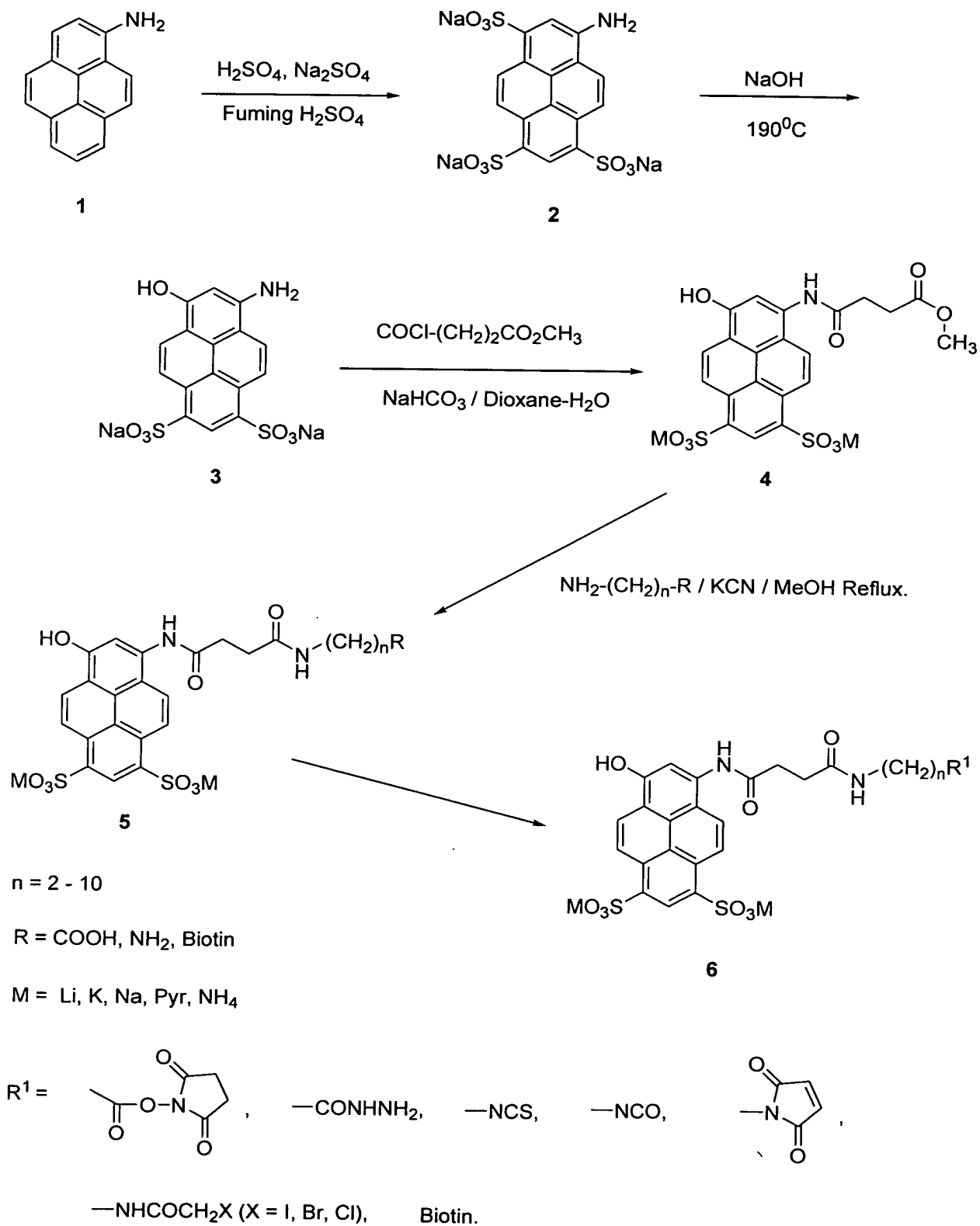


FIG. 16

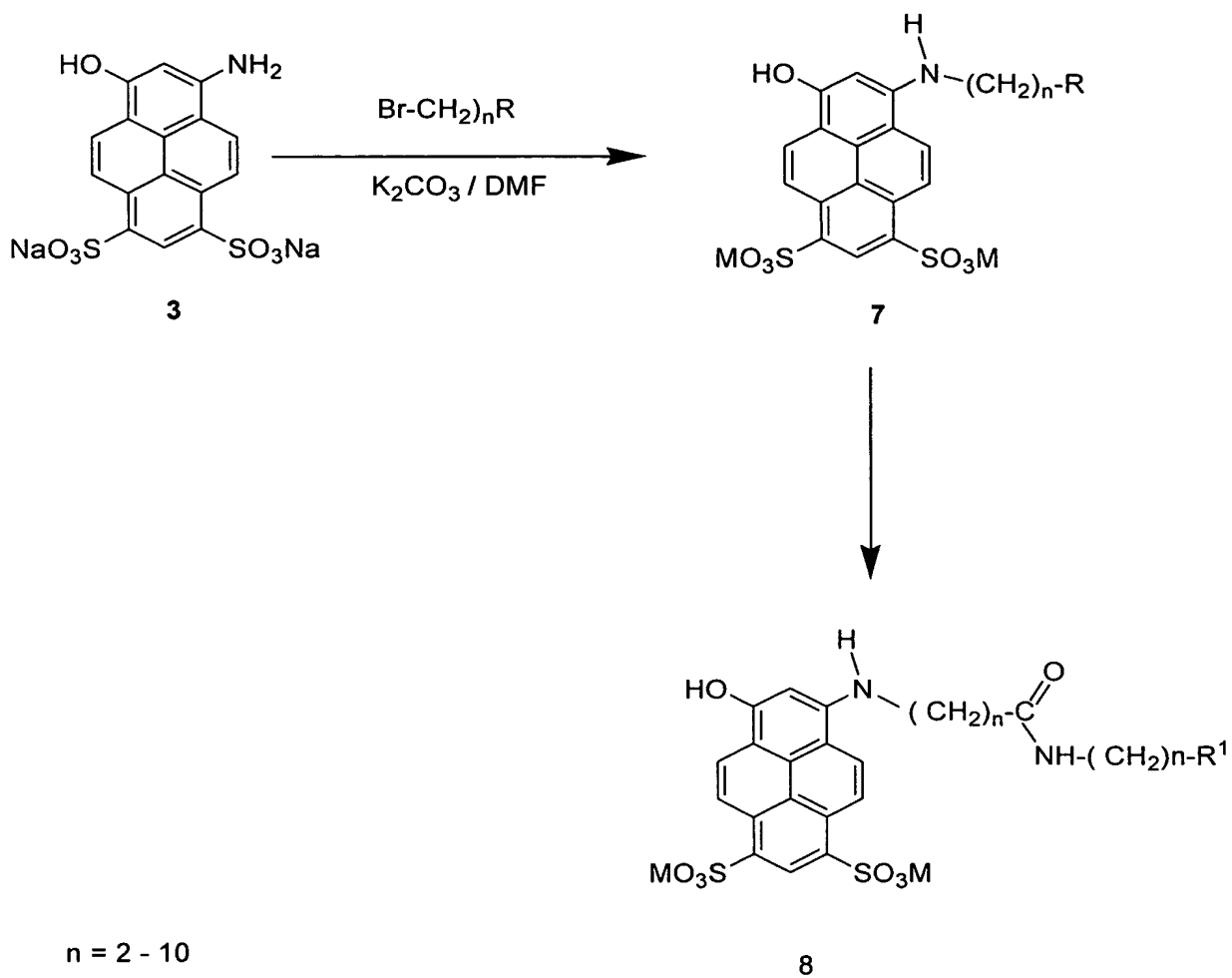


FIG. 17

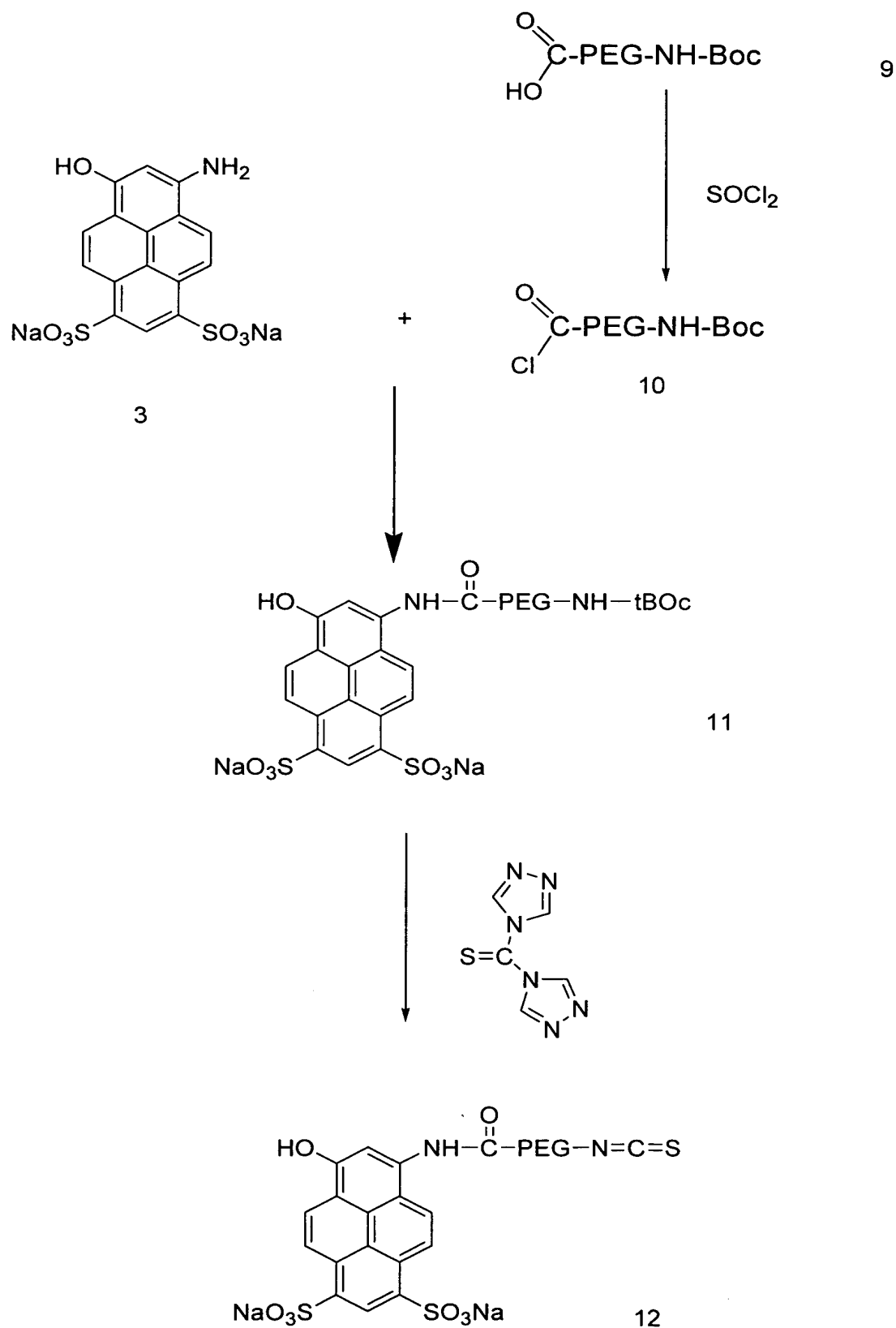
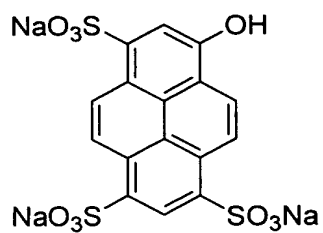
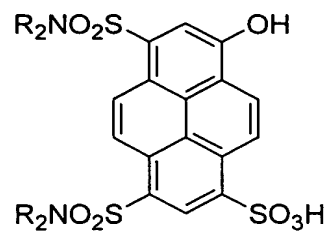
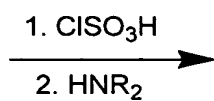


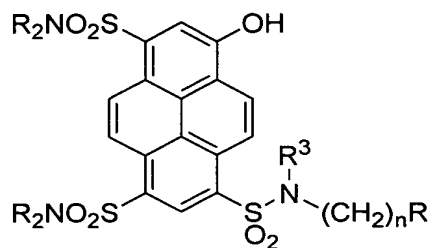
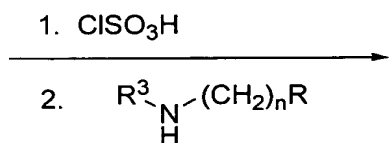
FIG. 18



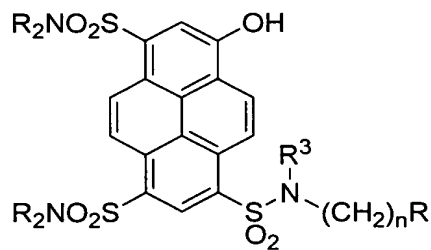
13



14



15



16

$n = 2 - 10$

$\text{R}^1, \text{R}^2 = \text{alkyl groups}$

$\text{R}^3 = \text{H, alkyl groups, } \text{R}^4 = \text{COOH, NH}_2, \text{Biotin}$

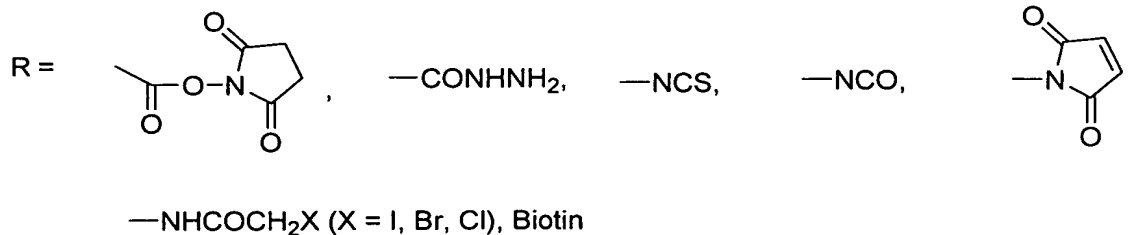
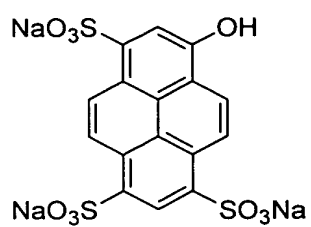
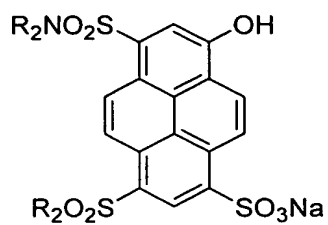
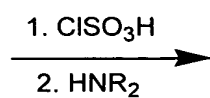


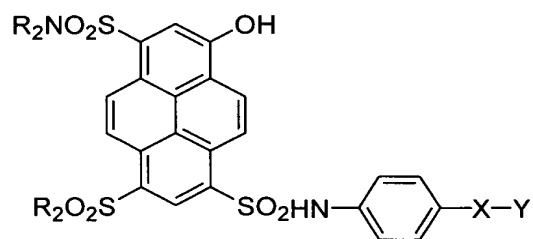
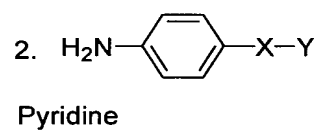
FIG. 19



13



14

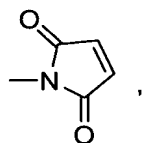
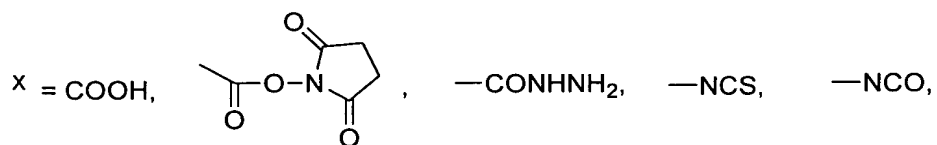


17

$n = 0 - 8$

R = Alkyl groups

$\text{X} = -(\text{CH}_2)_n-$



$-\text{NHCOCH}_2\text{X}$ ($\text{X} = \text{I}, \text{Br}, \text{Cl}$), Biotin

FIG. 20

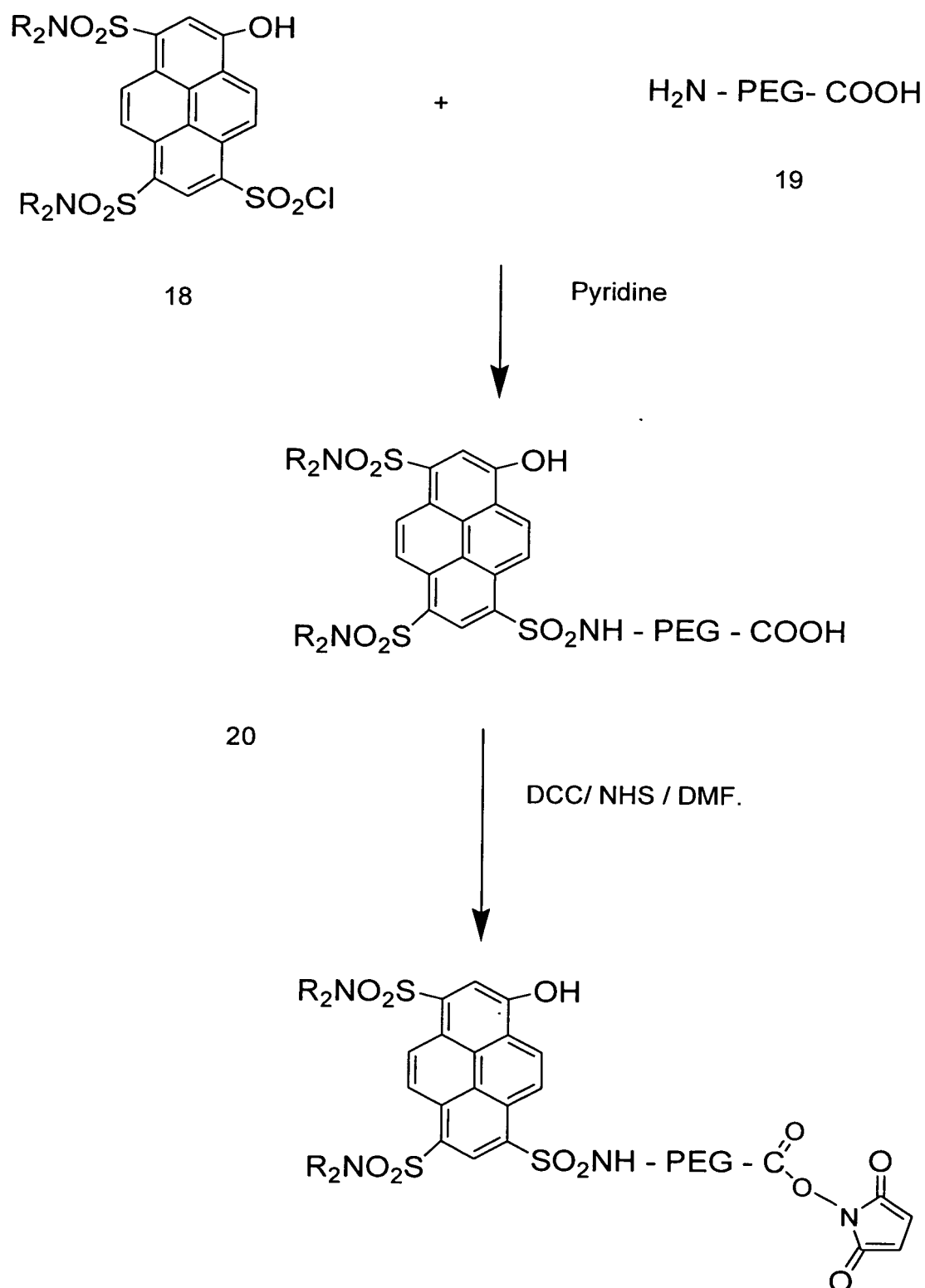


FIG. 21